

**Onion Mitosis Data Collection**

	Number of Cells			Total Cells in Phase	Fraction of Total Count*	Estimated Time in Stage
	Field 1	Field 2	Field 3			
Interphase						
Prophase						
Metaphase						
Anaphase						
Telophase						
<b>Total count</b>						

**Animal Cell Mitosis Data Collection**

	Number of Cells			Total Cells in Phase	Fraction of Total Count*	Estimated Time in Stage
	Field 1	Field 2	Field 3			
Interphase						
Prophase						
Metaphase						
Anaphase						
Telophase						
<b>Total count</b>						

\*Total cells in phase/total count

1. Calculate the decimal fraction of the total counted for each phase and record your results in the table above.
2. Given that it takes on average 24 hours for onion root tips to complete the cell cycle, calculate the average time spent in each phase and record your results.

$$\text{Fraction of cells in phase} \times 24 \text{ hours} = \text{time spent in the phase in hours}$$

(Convert to hours + minutes, e.g. 2.3 hours = 2 hours, 18 minutes)

3. Display your data in two graphs showing the percent of time in each phase for onion mitosis and animal cell mitosis based on information above.
  - a. Label: provide a title and key for you graphs.

Name \_\_\_\_\_ Period \_\_ \_ Date \_\_\_\_\_

Title \_\_\_\_\_

Title \_\_\_\_\_